USB 2.0+FireWire+10/100/1000 Quick Installation Guide

Features and Benefits

- Combo card design adds USB 2.0 (480 Mbps), FireWire (400 Mbps), Gigabit (10/100/1000 Mbps) Ethernet interface to your computer at once.
- Fully compliant with PCI specification 2.2
- Hot-swapping feature allows you to connect/disconnect USB and 1394 devices without powering down your system

USB 2.0 interface:

- Adds two external and one internal USB 2.0 ports
- Compliant with USB specification rev. 2.0
- Supports high-speed (480 Mbps), full-speed (12 Mbps), and low-speed (1.5 Mbps) data transfer modes for simultaneous operation of multiple USB 2.0/1.1 devices

> **NOTE:** USB 1.1 devices are limited to USB 1.1 speeds even when they are connected to USB 2.0 host adapter or USB 2.0 hubs.

FireWire (1394a) interface:

- Adds two external and one internal FireWire ports
- Compliant with IEEE 1394-1995, P1394a-2000 and OHCI 1.1 standards
- Supports serial bus data transfer rates of 100, 200 and 400 Mbps

Gigabit (10/100/1000 Mbps) Ethernet interface:

- Fully compliant with IEEE 802.3, IEEE 802.3u, IEEE 802.3ab
- Supports Full Duplex Flow Control (IEEE 802.3x)
- Integrated 10/100/1000 transceiver
- Auto-Negotiation with Next page capability
- Supports pair swap/polarity/skew correction
- Crossover Detection & Auto-Correction
- Transmit/Receive FIFO (8K/64K) support
- Supports IEEE 802.1Q VLAN tagging

System Requirements

- Pentium or equivalent computer with an available PCI slot
- Windows 98SE/ME/2000/XP

Package Contents

- (1) *USB 2.0+FireWire+10/100/1000* adapter
- (1) Driver CD
- (1) Wake-On-LAN (WOL) cable
- This quick installation guide

Layout

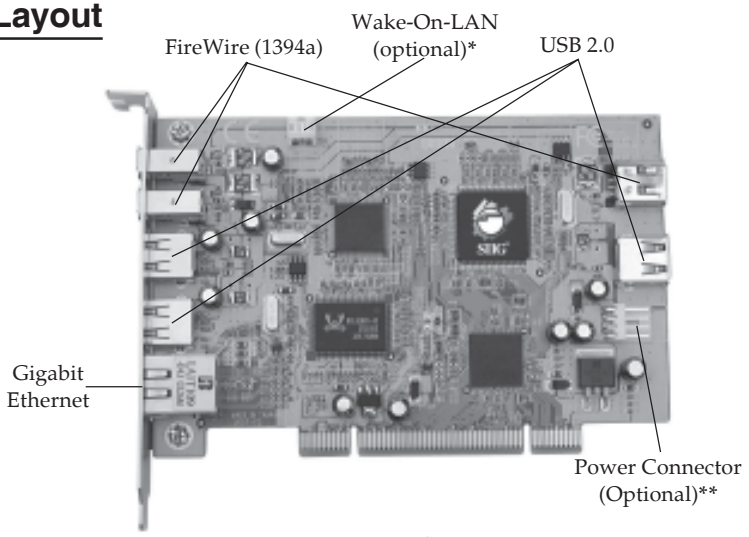

Figure 1. Board Layout

***NOTE:** The Wake-On-LAN (WOL) feature is **optional** and not needed in many cases. If you want to use this feature, the system's motherboard has to have a 3-pin **WOL** connector onboard. Follow the directions below to enable this feature.

1. Connect one end of the WOL cable to the board's WOL connector.
2. Connect the other end of the WOL cable to the motherboard's WOL connector.
3. In the BIOS Power Management, **enable** the **Wake on LAN** or **LAN Wakeup** option

****NOTE:** This power connector (same as the one used with your floppy disk drive) is designed to provide additional power to the board when needed. This connection is **optional** and not needed in many cases. We recommend to connect this power connector when 1) all ports are used, or 2) devices are not being detected.

1) Hardware Installation

General instructions for installing the card are provided below, since the design of computer cases and motherboards vary. Refer to your computer's reference manual for further information, if needed.

1. Turn OFF the power to your computer.
2. Unplug the power cord and remove your computer's cover.
3. Remove the slot bracket from an available PCI slot.
4. Carefully align the card to the selected PCI slot push the board down firmly, but gently, until it is well seated.
5. Replace the slot bracket's holding screw to secure the card.
6. Replace the computer cover and reconnect the power cord.

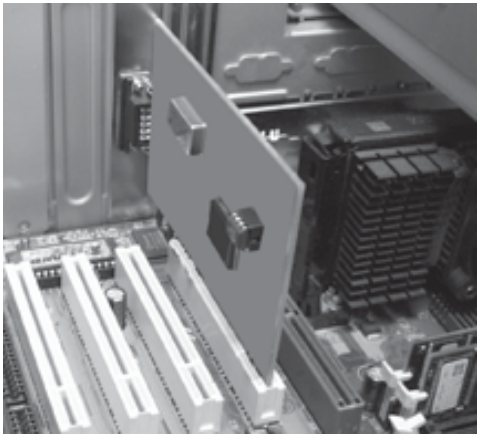

Figure 2. Inserting the PCI Board

2) Software Installation

To ensure proper installation of this board, please follow these instructions step-by-step.

2-1) Windows 98SE Driver Installation

1. Install the board, boot up your system, and insert the driver CD.
2. At the **Add New Hardware Wizard** window, click **Cancel**.
3. Click **Start**, **Run**, type in **X:\setup.exe**, then click **OK**. (Change **X:** to match your CD-ROM drive letter)
4. Choose **Yes, I want to restart my computer now**, then click **Close** to restart Windows.
5. When the **PCI standard PCI-to-PCI bridge** is detected, click **Next**.
6. Choose **Search for the best driver...,** then click **Next**.
7. Clear all boxes, then click **Next**.
8. Click **Next**, then **Finish**.
9. When the **PCI Ethernet Controller** is detected**,** click **Next**.
10. Choose **Search for the best driver...**, then click **Next**.
11. Choose **Specify a location**, type in **X:\LAN\win98**, then click **Next**. (Change **X:** to match your CD-ROM drive letter)
12. Click **Next**.

    NOTE: If prompted for Windows 98SE Installation CD, click **OK**. Insert this CD and click **OK**.

13. Click **Finish**, then **No** when asked to restart.
14. At the **Add New Hardware Wizard** window, click **Next**.

15. Choose **Search for the best driver...**, then click **Next**.
16. Clear all boxes, then click **Next**.
17. Choose **The updated driver (Recommended)**, then click **Next**.
18. Click **Next**, then **Finish**.
19. Repeat steps **14-18** two more times.
20. Click **Yes** to restart to complete.

2-2) Windows ME Driver Installation

1. Install the board, boot up your system, and insert the driver CD.
2. At the **Add New Hardware Wizard** window, click **Cancel**.
3. Click **Start**, **Run**, type in **X:\setup.exe**, then click **OK**. (Change **X:** to match your CD-ROM drive letter)
4. Choose **Yes, I want to restart my computer now**, then click **Close** to restart Windows.
5. When the **PCI standard PCI-to-PCI bridge** is detected, choose **Automatic Search for a better driver (Recommended)**, click **Next**, then **Finish**.
6. When the **1394 Host Controller** is detected, choose **Automatic Search for a better driver (Recommended)**, click **Next**, then **Finish**.
7. When the **PCI Ethernet Controller** is detected, choose **Specify the location of the driver (Advanced)**, then click **Next**.
8. Check **Specify a location**, then type in **X:\LAN\ME**. (Change **X:** to match your CD-ROM drive letter)

9. Choose **The updated software (Recommended)** and click **Next**.
10. Click **Next**, then **Finish**.
11. Click **Yes** to restart Windows to complete.

> **NOTE:** If prompted to restart Windows again after a restart, click **Yes**.

2-3) Windows 2000 Driver Installation

1. Install the board, boot up your system, and insert the driver CD.

> **NOTE:** If you have Windows 2000 with **Service Pack 4 (SP 4)** or later, skip to step 5.

2. At the **Add New Hardware Wizard** window, click **Cancel** two times.
3. Click **Start**, **Run**, type in **X:\setup.exe**, then click **OK**. (Change **X:** to match your CD-ROM drive letter)
4. Choose **Yes, I want to restart my computer now**, then click **Close** to restart Windows.
5. When the **Ethernet Controller** is detected, click **Next**.
6. Choose **Search for a suitable driver for my device (recommended)**, then click **Next**.
7. Check **Specify a location**, clear the other boxes, then click **Next**.
8. Type in **X:\LAN\Win2K**, then click **OK**. (Change **X:** to match your CD-ROM drive letter)
9. Click **Next**, then **Finish**.
10. Restart Windows to complete.

2-4) Windows XP Driver Installation

1. Install the board, boot up your system, and insert the driver CD.

   NOTE: If you have Windows XP with **Service Pack 1 (SP 1)** or later, follow steps **7-9** only and ignore the rest.

2. At the **Add New Hardware Wizard** window, click **Cancel** two times.
3. Click **Start**, **Run**, type in **X:\setup.exe**, then click **OK**. (Change **X:** to match your CD-ROM drive letter)
4. Choose **Yes, I want to restart my computer now**, then click **Close** to restart Windows.
5. When the **NEC PCI to USB Enhanced Host Controller** is detected, choose **Install the software automatically (Recommended)**.
6. Click **Next**, then **Finish**.
7. When the **Ethernet Controller** is detected, choose **Install from a list or specific location (Advanced)**, then click **Next**.
8. Check **Include this location in the search**, and clear the **Search removable media (floppy, CD-ROM)** box.
9. Type in **X:\LAN\XP**, click **Next**, then **Finish**. (Change **X:** to match your CD-ROM drive letter)
10. When the **USB 2.0 Root Hub Device** is detected, choose **Install the software automatically (Recommended)**.
11. Click **Next**, then **Finish** to complete.

2-5) To verify successful driver installation:

1. Check **Device Manager** to verify successful driver installation.

   Windows 98SE/ME: From the main desktop, right click **My Computer**, then click **Properties**. Click **Device Manager** tab.

   Windows 2000/XP: Right click **My Computer**, then click **Manage**. Click **Device Manager**.

2. The drivers for this controller show up differently under different versions of Windows. Please refer to the correct Windows version to verify.

   2-5.1) Windows 98SE/ME/2000 (with sp3 or earlier)/ XP (without sp):

   a) Under the **Universal Serial Bus Controllers:**
   - **NEC PCI to USB Enhanced Host Controller**
   - **USB 2.0 Root Hub Device**

   b) Under the **Universal Serial Bus Controllers:**
   - **NEC ... USB Open Host Controller**
   - **NEC ... USB Open Host Controller**
   - **USB Root Hub**
   - **USB Root Hub**

   c) Under the **1394 Bus Controller** or **IEEE 1394 Bus host controllers:**
   - **OHCI Compliant IEEE 1394 Host Controller**

   d) Under the **Network Adapters:**
   - **Realtek RTL8169/8110 Family Gigabit Ethernet**
   - **1394 Net Adapter** (Windows ME/XP only)

2-5.2) Windows 2000 (with sp3 or later)/XP (with sp1 or later):

a) Under the **Universal Serial Bus Controllers:**

- **NEC PCI to USB Open Host Controller**
- **NEC PCI to USB Open Host Controller**
- **Standard Enhanced PCI to USB Host Controller**
- **USB Root Hub** (**USB 2.0 Root Hub** in Win2K)
- **USB Root Hub**
- **USB Root Hub**

b) Under the **IEEE 1394 Bus host controllers:**

- **OHCI Compliant IEEE 1394 Host Controller**

c) Under the **Network Adapters:**

- **Realtek RTL8169/8110 Family Gigabit Ethernet**
- **1394 Net Adapter** (Windows XP only)

Technical Support

QUESTIONS? SIIG's **Online Support** has the answers! Simply visit our Web site at ***www.siig.com*** and click on **Support**. Our online support database is updated daily with new drivers and solutions. The answers to your problems could be just a few clicks away.

If you can't find answers or solutions to your questions, you have an option to submit the problems online to one of our technical support analysts and we will promptly respond to you with answers or solutions.

The 5-year manufacturer warranty supplied with this product is offered by SIIG, Inc. If you should happen to encounter any problems with this product, please follow the procedures below.

1. If it is within the store's return policy period, please return the product to the store where you purchased from.
2. If your purchase has passed the store's return policy period, please contact SIIG. See SIIG's Limited 5-year Warranty card for more information.

Online Store

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About SIIG, Inc.

Founded in 1985, SIIG, Inc. is a leading computer upgrade manufacturer of I/O connectivity products, including PCI & ISA serial and parallel ports, USB, Serial ATA & UltraATA controllers, FireWire (1394a/b), Networking, Sound Cards, and other accessories. SIIG is the premier one-stop source of upgrades.

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PRODUCT NAME	MODEL NUMBER
USB 2.0+FireWire+10/100/1000	US2305

FCC RULES: TESTED TO COMPLY WITH FCC PART 15, CLASS B
OPERATING ENVIRONMENT: FOR HOME OR OFFICE USE

FCC COMPLIANCE STATEMENT:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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